NOV 20 2015

DATE:

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
UTC Aerospace Systems, 2800 East 33rd St, Cleveland, Ohio

FROM: Luke Hullinger, Environmental Engineer
AECAB (MI/WI)

THRU: Sarah Marshall, Section Chief
AECAB (MI/WI)

TO: File

BASIC INFORMATION

Facility Name: UTC Aerospace Systems

Facility Location: 2800 East 33rd St, Cleveland, Ohio

Date of Inspection: November 6, 2015

Lead Inspector: Luke Hullinger, Environmental Engineer

Other Attendees:

1. Alexandra Letuchy, Environmental Engineer, EPA
2. Marie St. Peter, Environmental Engineer, EPA
3. Julianne Snyder, Environmental Supervisor, UTC Aerospace Systems
4. Julie Pecoraro, Consultant Environmental Scientist, UTC Aerospace Systems

Purpose of Inspection: Clean Air Act, 40 C.F.R. Part 63 Subpart N

Facility Type: Plating Facility

Arrival Time: 9:10 AM
Departure Time: 12:43 PM

Inspection Type:

☒ Unannounced Inspection
☐ Announced Inspection

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OPENING CONFERENCE

☒ Credentials Presented
☒ CBI warning to facility provided

The following information was obtained verbally from Julianne Snyder or Julie Pecoraro unless otherwise noted.

Company Ownership: 1993 Goodrich Plating Ops became UTC Aerospace Systems in July 2012

Process Description:

UTC Aerospace Systems is a plating company for aerospace and military operations in Cleveland, Ohio. The facility operates several different types of metal parts processing operations. Each part processed at the facility has a prescribed list of processing steps that it must undergo which vary significantly based on end use. Parts are transported in and if needed they are cleaned in a caustic cleaning tank and/or a chrome stripping tank (with exhaust stack) and then rinsed. Then, parts are grit blasted in one of two grit blasting rooms to clean the parts. Both grit blasting rooms have their own baghouse. Next, the parts are hit with shot peen in order to harden them. Next, the parts are either cleaned in a degreaser or aqueous wash line. The aqueous wash line will replace the degreaser completely when the facility becomes a minor source. Then, the parts are dipped into one or a series of tanks depending on the needs of the customer. The different plating tanks at the facility include: nickel, chrome, and cadmium. For nickel plating there are two electroless nickel plating tanks, two sulfamate nickel plating tanks and one woods nickel plating tank. Emissions from all nickel plating tanks are vented to the roof uncontrolled. There are four chrome plating tanks that have emission pick up points located around the perimeter of the tanks pulling emissions off the surface of the solution. Emissions from the four chrome tanks are vented to vertical mist eliminators followed by one of two chrome scrubbers with the same components. The scrubbers are designed with one mesh filter and then six more mesh filters that are in three sets of two. The facility monitors the 4 different pressure drop points across the mesh filters to ensure the scrubber is functioning. There are two nickel plating tanks, one with titanium and one without. Both tanks are vented to the roof uncontrolled.

After plating parts are baked in a natural gas oven anywhere from 2 to 23 hours at a temperature around 375 °F. Next the parts are sent to one of 4 polishing stations separated by curtained walls. The stations are vented to a single bag house. Final products are sent to clients.

TOUR INFORMATION

EPA toured the facility: Yes

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RECORDS REVIEW

List of all tank sizes and contents (copies made)

CLOSING CONFERENCE

We thanked UTC Aerospace systems for their time and told them if we needed more information we would send them a Section 114 information request. We told them if they would like a copy of the report they could request one through the Freedom of Information Act. UTC Aerospace systems informed us they did not share any confidential business information. We left at 12:43 PM.

Requested documents:

- Air emissions report
- Stack test (2012)

SIGNATURES

Lead Inspector: Luke Gallinger Date: 11/20/2015

Section Chief: [signature] Date: 11/20/15